

Kushal Singh

+91-7061820912 | singhkushal635@gmail.com | Bengaluru, Karnataka | LinkedIn | Portfolio | GitHub | LeetCode

EXPERIENCE

Full Stack Engineer <i>IronRod Health</i>	June 2024 – Present <i>Bengaluru, Karnataka</i>
<ul style="list-style-type: none">Reduced data extraction time by 60% and improved patient-data accuracy by building a production-grade HL7 parser in Spring Boot using Java Streams to convert HL7 files into JSON.Increased throughput and scalability for healthcare workloads by architecting a configuration-driven data ingestion engine for CSV/JSON inputs (100k+ records) using Reactor Core streams and PostgreSQL.Cut manual configuration effort by 70–80% by designing dynamic JSON-based configurations and a settings UI to customize data mappings and tables without code changes.Reduced repetitive manual operations by 70–80% while preserving edge-case review by implementing a rules engine automating 200+ patient, device, and inventory workflows as Azure Functions.Boosted deployment reliability and release speed by leading DevOps efforts with Terraform, Firebase, Azure Functions, Blob Storage, queues, Docker, and YAML-based CI/CD pipelines.	
Full Stack Engineer <i>Jellyfish Technologies</i>	May 2023 – May 2024 <i>Noida, Uttar Pradesh</i>
<ul style="list-style-type: none">Enhanced website's performance by migrating Thymeleaf to React (cut load time by 2000 ms) and optimizing Electron build size (75 MB → 60 MB), using React, Spring, Spring Boot, and Docker.Engineered automation tools for AWS S3 data structuring leveraging cloud-native patterns to boost fetch performance. Delivered robust, scalable full-stack and desktop solutions across diverse modules.Built a Code Editor for an HR platform, integrating compilers for multiple languages for coding assessments.	
Software Engineer Intern <i>Jellyfish Technologies</i>	Nov 2022 – April 2023 <i>Noida, Uttar Pradesh</i>
<ul style="list-style-type: none">Internship experience encompassed technologies such as MongoDB, MySQL, Spring, Spring Boot and React.	
Backend Development Intern <i>QuadB Technologies</i>	June 2021 – Sept 2021 <i>Remote</i>
<ul style="list-style-type: none">Optimized code, built 100+ APIs (including analytical), managed backend tasks and media processing	

PROJECTS

Corporate.AI - Corporate Policy & Knowledge Assistant Github RAG Spring AI Spring Boot PostgreSQL pgvector ReactJS Apache Tika Docker	<ul style="list-style-type: none">Built RAG system for secure, context-aware LLM responses with vector search & containerized architecture.Automated document ingestion, chunking, and similarity search; frontend streams QA experience using React.
Stock Overflow - Real-Time Decentralized Bidding & Inventory Platform Github Spring Boot Spring Cloud Kafka WebFlux PostgreSQL MongoDB Redis Docker	<ul style="list-style-type: none">Developed reactive event-driven bidding/inventory microservices with Kafka, API Gateway and real-time syncing.Attained low-latency ops, data consistency, scalable Docker deployment and fault-tolerant distributed architecture.
Howdy - Real-Time Chat Application Github Spring Spring Boot MongoDB ReactJS Socket.io Firebase Cloudinary ChakraUI	<ul style="list-style-type: none">Developed real-time chat app with audio/file messages, google auth, notifications and typing features.Refined chats with replies, emoji keyboard, group chats, Google login and cross-platform support.

TECHNICAL SKILLS

Programming Languages: **Java, C, C++, JavaScript**
Frameworks & Libraries: **Spring, Spring Boot, Thymeleaf, Microservices, Socket IO, HTML, CSS, Bootstrap, SCSS, Tailwind, Material UI, ReactJS, ElectronJS**
Databases: **PostgreSQL, MySQL, MongoDB, Firebase, Sequelize**
Developer Tools: **Docker, AWS, Azure, Kafka, Kubernetes**

ACHIEVEMENTS

- Achieved highest LeetCode contest rating of **1762**, demonstrating advanced problem-solving skills.

EDUCATION

B.Tech. (CSE) - 8 GPA <i>Greater Noida Institute of Technology</i>	2019 – 2023 <i>Noida, Uttar Pradesh</i>
--	---